UM-SJTU PHYSICS LABORATORY VP241 Data: Sheet (Exercise 2)

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Group: _

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Date: 2021:11.5

NOTICE. Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with a pencil or modified with a correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used. You are required to hand in the original data with your lab report, so please keep the data sheet properly.

• + ⁹ / 1/	, 0.05%+67	0.05%+6×10-3	
$U_{\rm S} \left[\begin{array}{c} V \\ \end{array} \right] \pm \begin{array}{c} V \\ \end{array} \left[\begin{array}{c} V \\ \end{array} \right]$	$U_0(I_{\rm M}=0)$ $[\underline{\hspace{0.2cm}}^{\hspace{0.2cm}}]$ \pm $[\underline{\hspace{0.2cm}}^{\hspace{0.2cm}}]$	$U(I_{\rm M}=250~{ m mA})$ [] ±[]
5.00	2.504	2.621	

Table 1. Data for U_0 and U with $U_S = 5$ V.

		15% + 6×10-3/6×10-4 0.05% +6×10-3/6×10-4		
	V. 0.5% V	V " V	1/ 0.05/0	
	$U_S \left[\begin{array}{c} \bullet \\ \end{array} \right] \pm \left[\begin{array}{c} \bullet \\ \end{array} \right]$	$U_0 \ [\underline{\hspace{1cm}}] \ \pm \ \underline{\hspace{1cm}} \ [\underline{\hspace{1cm}}]$		
1	2.80	1-4004	1.4656	
2	3.20	1-6002	1.6760	
3	3.60	1-8022	1-8905	
4	4.00	2.002	2.697	
5	4.40	7.20	2.308	
6	4.80	2,405	2.518	
7	5.20	2.602	2.723	
8	5.60	2.800	2.933	
9	8.00	2.999	3.136	
10	6.40	3.198	3.343	
11	6.80	3.394	3.545	
12	7.20	3.592	3.748	
13	7.60	3.788	3.952	
14	8.00	3.988	4:152	
15	8.40	4.183	4.351	
16	8.80	4.380	4.552	
17	9-20	4.573	4.751	
18	10:00	4.963	5.143	

Table 2. Data for U_0 and U with different U_S .

Instructor's signature: _____